L Number	Hits	Search Text	DB	Time stamp
-	1	(ac near cable) and (different near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:23
-	0	(ac near cable) and (vary near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:27
-	0	(ac near cable) and ((first and second) near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:21
-	1	(superconducting near cable) and ((first and second) near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:32
-	1	(superconducting near cable) and (different near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:32
-	1	(superconducting near cable) and (vary near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:27
-	4	(superconducting near cable) and (different near material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:33
-	9	(superconducting near cable) and ((first and second) near material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:38
-	4	((superconducting near cable) and (different near material)) not ((superconducting near cable) and ((first and second) near material))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 12:45
-	4	(cryogenic adj plant) and ((superconducting or ac) near cable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 15:42
-	148	(cryogenic) and ((superconducting or ac) near cable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 18:11

DERWENT-ACC-NO: 1998-511955

DERWENT-WEEK: 199844

TITLE: Superconductive cable structure - has cooling unit equipped with heat radiation type that is arranged along axial direction of superconductor with cooling source at its edge

PATENT-ASSIGNEE: FUJIKURA LTD[FUJD]

PRIORITY-DATA: 1997JP-0040001 (February 7, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10223066 A	August 21, 1998	N/A	004	H01B 012/16

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 10223066A	N/A	1997JP-0040001	February 7, 1997

INT-CL (IPC): H01B012/16, H01B013/00

ABSTRACTED-PUB-NO: JP 10223066A

BASIC-ABSTRACT:

The structure includes a superconductor (12) cooled below a critical temperature by a cooling unit. The cooling unit has a heat radiation pipe (11) arranged along the axial direction of the superconductor. A cooling source (18) is connected to the edge of the heat radiation pipe.

ADVANTAGE - Eliminates need for passing coolant into cable thereby simplifies
structure.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: SUPERCONDUCTING CABLE STRUCTURE COOLING UNIT EQUIP HEAT RADIATE
TYPE ARRANGE AXIS DIRECTION SUPERCONDUCTING COOLING SOURCE EDGE

DERWENT-CLASS: X12

EPI-CODES: X12-C02A3; X12-D06A;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1998-399668

DERWENT-ACC-NO: 1984-144968

DERWENT-WEEK: 198423

TITLE: Superconducting cable system cryogenic plant operation - using precooled active gas and fully sealing hydrogen or helium compressor, by component condensn. at ambient temp. and evapn.

INVENTOR: BELYAKOV, V P; LAVRENCHEN, G K ; MINKUS, B A

PATENT-ASSIGNEE: KRIOGENMASH SCI PROD ASS[KRIOR] , ODESSA REFRIG IND RES[ODRI]

PRIORITY-DATA: 1982SU-3405394 (March 2, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1041830 A	September 15, 1983	N/A	004	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
SU 1041830A	N/A	1982SU-3405394	March 2, 1982

INT-CL (IPC): F25B011/00, F25J001/00

ABSTRACTED-PUB-NO: SU 1041830A

BASIC-ABSTRACT:

Cryogenic plant operation by stepped compression of a flowing mix of active gas and an auxiliary component, stepped cooling of the

mix to temp. near the freezing point of the component, liq. component sepn. and
removal of active gas, mixing of the return flow of active gas with the sepd.
and choked component, evapn. of the component and heating the mix return flow
to ambient temp. is made more economical as a refrigerator for a
superconducting cable system.

For energy saving, some of the liq. component is sepd. from the return mix at
ambient temp.

It is choked stepwise to intermediate pressure to join the flow of mix at this
temp., evapd. by heat from flows after their compression to lower pressure and
then directed to following compression.

Active gas is precooled by boiling the auxiliary component, so dispensing with
liq. nitrogen for this purpose.

Bul.34/15.9.83

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: SUPERCONDUCTING CABLE SYSTEM CRYOGENIC PLANT OPERATE PRECOOLED
ACTIVE GAS SEAL HYDROGEN HELIUM COMPRESSOR COMPONENT CONDENSATION
AMBIENT TEMPERATURE EVAPORATION

DERWENT-CLASS: J07 Q75 X12

CPI-CODES: J07-A01;

EPI-CODES: X12-D06;

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1984-061343
Non-CPI Secondary Accession Numbers: N1984-107581